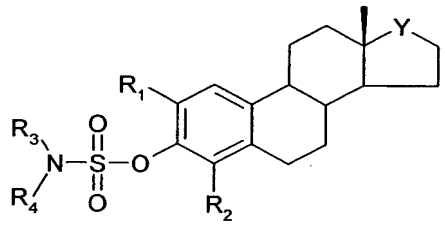
CLAIMS

1. A sulphamate compound suitable for use as an inhibitor of oestrone sulphatase, wherein the compound is a sulphamate compound having Formula IV;

Formula IV



wherein

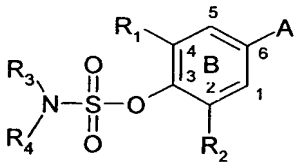
R_1 and/or R_2 is a substituent other than H; wherein R_1 and R_2 may be the same or different but not both being H;

each of R_3 and R_4 is independently selected from H, alkyl, cycloalkyl, alkenyl and aryl, wherein at least one of R_3 and R_4 is H; and

Y is a suitable linking group.

2. A sulphamate compound suitable for use as an inhibitor of oestrone sulphatase, wherein the compound is a sulphamate compound having Formula II;

Formula II



wherein

R_1 and optionally R_2 is a substituent other than H; wherein R_1 and R_2 may be the same or different;

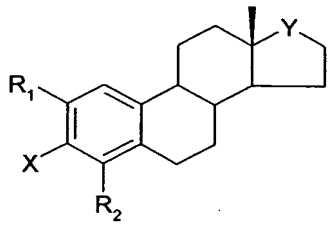
each of R_3 and R_4 is independently selected from H, alkyl, cycloalkyl, alkenyl and aryl, wherein at least one of R_3 and R_4 is H; and

group A and ring B together are capable of mimicking the A and B rings of oestrone; and

group A is additionally attached to the carbon atom at position 1 of the ring B.

3. A sulphamate compound according to claim 2 wherein the compound has the Formula IV;

Formula IV



wherein X is a sulphamate group; R_1 and/or R_2 is a substituent other than H; wherein R_1 and R_2 may be the same or different but not both being H; and wherein Y is a suitable linking group.

4. A sulphamate compound according to claim 1 wherein at least one of R_3 and R_4 is H.

5. A sulphamate compound according to claim 2 wherein at least one of R_3 and R_4 is H.

6. A sulphamate compound according to claim 1 wherein each of R_3 and R_4 is H.

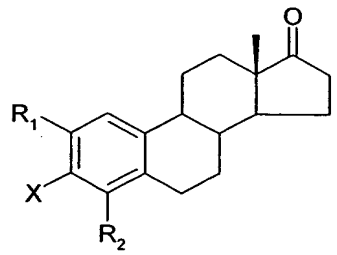
7. A sulphamate compound according to claim 2 wherein each of R_3 and R_4 is H.

8. A sulphamate compound according to claim 1 wherein Y is $-CH_2-$ or -C(O)-.

9. A sulphamate compound according to claim 1 wherein Y is -C(O)-.

10. A sulphamate compound according to claim 1 wherein the compound has the Formula V;

Formula V



wherein X is a sulphamate group; R_1 and optionally R_2 is a substituent other than H; and wherein R_1 and R_2 may be the same or different.

11. A sulphamate compound according to claim 1 wherein each of R_1 and R_2 is independently selected from H, alkyl, cycloalkyl, alkenyl, aryl, substituted alkyl, substituted cycloalkyl, substituted alkenyl, substituted aryl, a nitrogen containing group, a S containing group, or a carboxy containing group.

12. A sulphamate compound according to claim 2 wherein

R_1 is selected from alkyl, cycloalkyl, alkenyl, aryl, substituted alkyl, substituted cycloalkyl, substituted alkenyl, substituted aryl, a nitrogen containing group, a S containing group, or a carboxy containing group, and

R_2 is selected from H, alkyl, cycloalkyl, alkenyl, aryl, substituted alkyl, substituted cycloalkyl, substituted alkenyl, substituted aryl, a nitrogen containing group, a S containing group, or a carboxy containing group.

13. A sulphamate compound according to claim 1 wherein each of R_1 and R_2 is independently selected from H, C_{1-6} alkyl, C_{1-6} cycloalkyl, C_{1-6} alkenyl, substituted C_{1-6} alkyl, substituted C_{1-6} cycloalkyl, substituted C_{1-6} alkenyl, substituted aryl, a nitrogen containing group, a S containing group, or a carboxy group having from 1-6 carbon atoms.

14. A sulphamate compound according to claim 2 wherein

R_1 is selected from C_{1-6} alkyl, C_{1-6} cycloalkyl, C_{1-6} alkenyl, substituted C_{1-6} alkyl, substituted C_{1-6} cycloalkyl, substituted C_{1-6} alkenyl, substituted aryl, a nitrogen containing group, a S containing group, or a carboxy group having from 1-6 carbon atoms, and

R_2 is selected from H, C_{1-6} alkyl, C_{1-6} cycloalkyl, C_{1-6} alkenyl, substituted C_{1-6} alkyl, substituted C_{1-6} cycloalkyl, substituted C_{1-6} alkenyl, substituted aryl, a nitrogen containing group, a S containing group, or a carboxy group having from 1-6 carbon atoms.

15. A sulphamate compound according to claim 1 wherein each of R_1 and R_2 is independently selected from H, C_{1-6} alkyl, C_{1-6} alkenyl, a nitrogen containing group, or a carboxy group having from 1-6 carbon atoms.

16. A sulphamate compound according to claim 2 wherein
R_1 is selected from C_{1-6} alkyl, C_{1-6} alkenyl, a nitrogen containing group, or a carboxy group having from 1-6 carbon atoms, and
R_2 is selected from H, C_{1-6} alkyl, C_{1-6} alkenyl, a nitrogen containing group, or a carboxy group having from 1-6 carbon atoms.

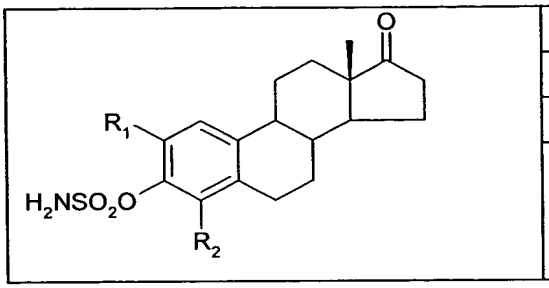
17. A sulphamate compound according to claim 1 wherein each of R_1 and R_2 is independently selected from H, C_{1-6} alkyl, C_{1-6} alkenyl, NO_2, or a carboxy group having from 1-6 carbon atoms.

18. A sulphamate compound according to claim 2 wherein
R_1 is selected from C_{1-6} alkyl, C_{1-6} alkenyl, NO_2, or a carboxy group having from 1-6 carbon atoms, and
R_2 is selected from H, C_{1-6} alkyl, C_{1-6} alkenyl, NO_2, or a carboxy group having from 1-6 carbon atoms.

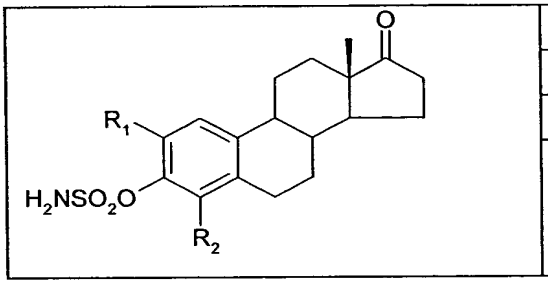
19. A sulphamate compound according to claim 1 wherein each of R_1 and R_2 is independently selected from H, C_3 alkyl, C_3 alkenyl, NO_2, or H_3CO.

20. A sulphamate compound according to claim 2 wherein
R_1 is selected from C_3 alkyl, C_3 alkenyl, NO_2, or H_3CO, and
R_2 is selected from H, C_3 alkyl, C_3 alkenyl, NO_2, or H_3CO.

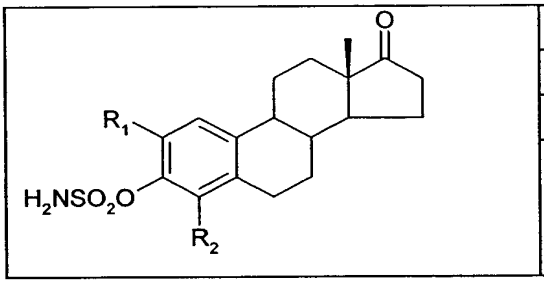
21. A sulphamate compound according to claim 1 wherein the compound is any one of the Formulae VI - IX.



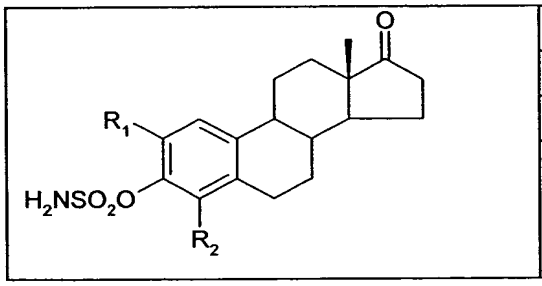
	R_1	R_2	Formula VI
a)	n-$CH_2CH_2CH_3$	H	
b)	H	n-$CH_2CH_2CH_3$	
c)	n-$CH_2CH_2CH_3$	n-$CH_2CH_2CH_3$	



	R_1	R_2	Formula VII
a)	-$CH_2CH{=}CH_2$	H	
b)	H	-$CH_2CH{=}CH_2$	
c)	-$CH_2CH{=}CH_2$	-$CH_2CH{=}CH_2$	



	R_1	R_2	Formula VIII
a)	H_3CO-	H	
b)	H	H_3CO-	
c)	H_3CO-	H_3CO-	



	R_1	R_2	Formula IX
a)	-NO_2	H	
b)	H	-NO_2	
c)	-NO_2	-NO_2	

22. A sulphamate compound according to claim 2 wherein the group A/ring B combination contains one or more alkoxy substituents.

23. A sulphamate compound according to claim 2 wherein the group A/ring B combination contains one or more methoxy substituents.

24. A sulphamate compound according to claim 1 wherein R_1 and/or R_2 is an alkoxy group.

25. A sulphamate compound according to claim 2 wherein R_1 and/or R_2 is an alkoxy group.

26. A sulphamate compound according to claim 1 wherein R_1 and/or R_2 is a methoxy group.

27. A sulphamate compound according to claim 2 wherein R_1 and/or R_2 is a methoxy group.

28. A sulphamate compound according to claim 1 wherein R_1 is an alkoxy group.

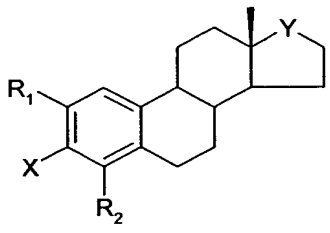
29. A sulphamate compound according to claim 2 wherein R_1 is an alkoxy group.

30. A sulphamate compound according to claim 1 wherein R_1 is a methoxy group.

31. A sulphamate compound according to claim 2 wherein R_1 is a methoxy group.

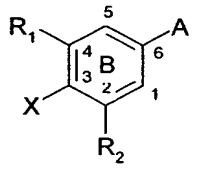
32. A method of inhibiting steroid sulphatase activity in a patient in need thereof comprising administering a sulphamate compound having Formula IV;

Formula IV



wherein X is a sulphamate group; R_1 and/or R_2 is a substituent other than H; wherein R_1 and R_2 may be the same or different but not both being H; and wherein Y is a suitable linking group.

33. A method of inhibiting steroid sulphatase activity in a patient in need thereof comprising administering a sulphamate compound having Formula II;



Formula II

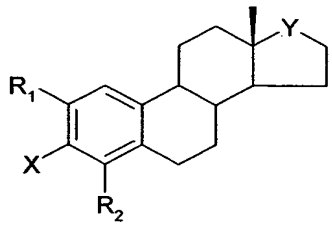
wherein X is a sulphamate group

R_1 and optionally R_2 is a substituent other than H; wherein R_1 and R_2 may be the same or different;

wherein group A and ring B together are capable of mimicking the A and B rings of oestrone; and

wherein group A is additionally attached to the carbon atom at position 1 of the ring B.

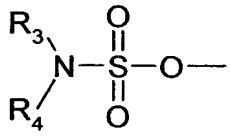
34. A method according to claim 33 wherein the compound has the Formula IV;



Formula IV

wherein X is a sulphamate group; R_1 and/or R_2 is a substituent other than H; wherein R_1 and R_2 may be the same or different but not both being H; and wherein Y is a suitable linking group.

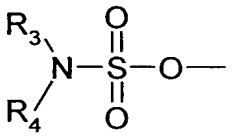
35. A method according to claim 32 wherein the sulphamate group has the Formula III;



Formula III

wherein each of R_3 and R_4 is independently selected from H, alkyl, cycloalkyl, alkenyl and aryl, or together represent alkylene optionally containing one or more hetero atoms or groups in the alkylene chain.

36. A method according to claim 33 wherein the sulphamate group has the Formula III;



Formula III

wherein each of R_3 and R_4 is independently selected from H, alkyl, cycloalkyl, alkenyl and aryl, or together represent alkylene optionally containing one or more hetero atoms or groups in the alkylene chain.

37. A method according to claim 32 wherein at least one of R_3 and R_4 is H.

38. A method according to claim 33 wherein at least one of R_3 and R_4 is H.

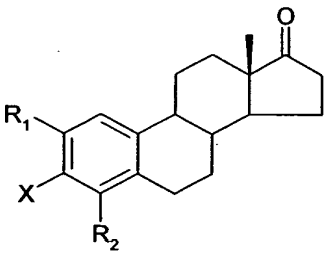
39. A method according to claim 32 wherein each of R_3 and R_4 is H.

40. A method according to claim 33 wherein each of R_3 and R_4 is H.

41. A method according to claim 32 wherein Y is $-CH_2-$ or -C(O)-.

42. A method according to claim 32 wherein Y is -C(O)-.

43. A method according to claim 32 wherein the compound has the Formula V;



Formula V

wherein X is a sulphamate group; R_1 and optionally R_2 is a substituent other than H; and wherein R_1 and R_2 may be the same or different.

44. A method according to claim 32 wherein each of R_1 and R_2 is independently selected from H, alkyl, cycloalkyl, alkenyl, aryl, substituted alkyl, substituted cycloalkyl, substituted alkenyl, substituted aryl, a nitrogen containing group, a S containing group, or a carboxy containing group.

45. A method according to claim 33 wherein

R_1 is selected from alkyl, cycloalkyl, alkenyl, aryl, substituted alkyl, substituted cycloalkyl, substituted alkenyl, substituted aryl, a nitrogen containing group, a S containing group, or a carboxy containing group, and

R_2 is selected from H, alkyl, cycloalkyl, alkenyl, aryl, substituted alkyl, substituted cycloalkyl, substituted alkenyl, substituted aryl, a nitrogen containing group, a S containing group, or a carboxy containing group.

46. A method according to claim 32 wherein each of R_1 and R_2 is independently selected from H, C_{1-6} alkyl, C_{1-6} cycloalkyl, C_{1-6} alkenyl, substituted C_{1-6} alkyl, substituted C_{1-6} cycloalkyl, substituted C_{1-6} alkenyl, substituted aryl, a nitrogen containing group, a S containing group, or a carboxy group having from 1-6 carbon atoms.

47. A method according to claim 33 wherein

R_1 is selected from C_{1-6} alkyl, C_{1-6} cycloalkyl, C_{1-6} alkenyl, substituted C_{1-6} alkyl, substituted C_{1-6} cycloalkyl, substituted C_{1-6} alkenyl, substituted aryl, a nitrogen containing group, a S containing group, or a carboxy group having from 1-6 carbon atoms, and

R_2 is selected from H, C_{1-6} alkyl, C_{1-6} cycloalkyl, C_{1-6} alkenyl, substituted C_{1-6} alkyl, substituted C_{1-6} cycloalkyl, substituted C_{1-6} alkenyl, substituted aryl, a nitrogen containing group, a S containing group, or a carboxy group having from 1-6 carbon atoms.

48. A method according to claim 32 wherein each of R_1 and R_2 is independently selected from H, C_{1-6} alkyl, C_{1-6} alkenyl, a nitrogen containing group, or a carboxy group having from 1-6 carbon atoms.

49. A method according to claim 33 wherein
R_1 is selected from C_{1-6} alkyl, C_{1-6} alkenyl, a nitrogen containing group, or a carboxy group having from 1-6 carbon atoms, and
R_2 is selected from H, C_{1-6} alkyl, C_{1-6} alkenyl, a nitrogen containing group, or a carboxy group having from 1-6 carbon atoms.

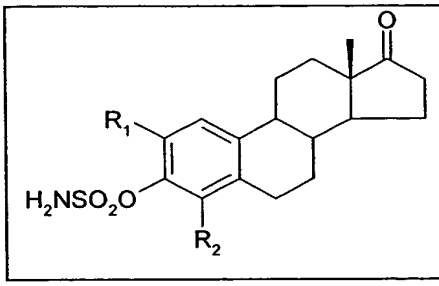
50. A method according to claim 32 wherein each of R_1 and R_2 is independently selected from H, C_{1-6} alkyl, C_{1-6} alkenyl, NO_2, or a carboxy group having from 1-6 carbon atoms.

51. A method according to claim 33 wherein
R_1 is selected from C_{1-6} alkyl, C_{1-6} alkenyl, NO_2, or a carboxy group having from 1-6 carbon atoms, and
R_2 is selected from H, C_{1-6} alkyl, C_{1-6} alkenyl, NO_2, or a carboxy group having from 1-6 carbon atoms.

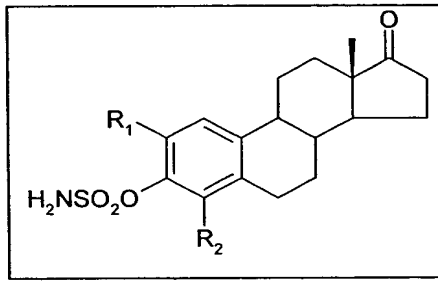
52. A method according to claim 32 wherein each of R_1 and R_2 is independently selected from H, C_3 alkyl, C_3 alkenyl, NO_2, or H_3CO.

53. A method according to claim 33 wherein
R_1 is selected from C_3 alkyl, C_3 alkenyl, NO_2, or H_3CO, and
R_2 is selected from H, C_3 alkyl, C_3 alkenyl, NO_2, or H_3CO.

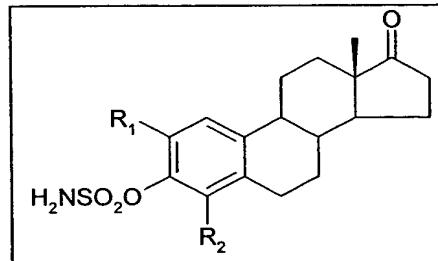
54. A method according to claim 32 wherein the compound is any one of the Formulae VI - IX.



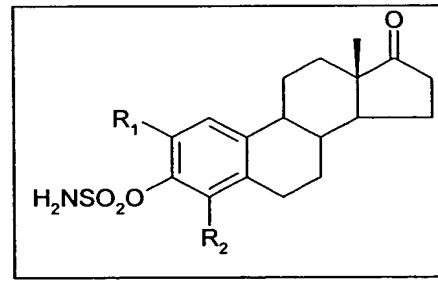
	R_1	R_2	Formula VI
a)	n-$CH_2CH_2CH_3$	H	
b)	H	n-$CH_2CH_2CH_3$	
c)	n-$CH_2CH_2CH_3$	n-$CH_2CH_2CH_3$	



	R_1	R_2	Formula VII
a)	-$CH_2CH=CH_2$	H	
b)	H	-$CH_2CH=CH_2$	
c)	-$CH_2CH=CH_2$	-$CH_2CH=CH_2$	



	R_1	R_2	Formula VIII
a)	H_3CO-	H	
b)	H	H_3CO-	
c)	H_3CO-	H_3CO-	



	R_1	R_2	Formula IX
a)	-NO_2	H	
b)	H	-NO_2	
c)	-NO_2	-NO_2	

55. A method according to claim 33 wherein the group A/ring B combination contains one or more alkoxy substituents.

56. A method according to claim 33 wherein the group A/ring B combination contains one or more methoxy substituents.

57. A method according to claim 32 wherein R_1 and/or R_2 is an alkoxy group.

58. A method according to claim 33 wherein R_1 and/or R_2 is an alkoxy group.

59. A method according to claim 32 wherein R_1 and/or R_2 is a methoxy group.

60. A method according to claim 33 wherein R_1 and/or R_2 is a methoxy group.

61. A method according to claim 32 wherein R_1 is an alkoxy group.

62. A method according to claim 33 wherein R_1 is an alkoxy group.

63. A method according to claim 32 wherein R_1 is a methoxy group.

64. A method according to claim 33 wherein R_1 is a methoxy group.